

# Product Datasheet

## Mucolipin 1 Antibody - BSA Free NB110-82375

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB110-82375**

Mucolipin 1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

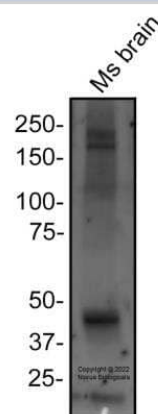
Product Description	
Description	Novus Biologicals Rabbit Mucolipin 1 Antibody - BSA Free (NB110-82375) is a polyclonal antibody validated for use in WB and Simple Western. Anti-Mucolipin 1 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	57192
Gene Symbol	MCOLN1
Species	Human, Mouse, Rat
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:34964698) .
Immunogen	Synthetic peptide made to a C-terminal portion of mouse Mucolipin 1 (within residues 500-580). [Swiss-Prot# Q99J21]

Product Application Details	
Applications	Western Blot, Simple Western
Recommended Dilutions	Western Blot 0.1-0.5 ug/ml, Simple Western 1:40
Application Notes	<p>This Mucolipin 1 antibody is useful for Western blot, where a band can be seen at approx. 66 kDa.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in Human Brain lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:40, apparent MW was 55 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.</p>

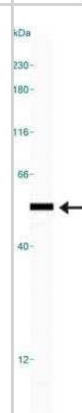


## Images

Western Blot: Mucolipin 1 Antibody [NB110-82375] - Total protein from mouse brain was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-Mucolipin 1 (NB110-82375) in blocking buffer and detected with an anti-rabbit HRP secondary antibody using NovaLume chemiluminescence detection reagent (NPB2-61915).



Simple Western: Mucolipin 1 Antibody [NB110-82375] - Lane view shows a specific band for Mucolipin 1 in 0.5 mg/ml of Human Brain lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



## Publications

Dasol Kim, Hui-Yun Hwang, Eun Sun Ji, Jin Young Kim, Jong Shin Yoo, Ho Jeong Kwon Activation of mitochondrial TUFM ameliorates metabolic dysregulation through coordinating autophagy induction Communications Biology 2021-01-04 [PMID: 33398033]

Liu J, Zhu S, Zeng L et al. DCN released from ferroptotic cells ignites AGER-dependent immune responses Autophagy 2021-12-29 [PMID: 34964698] (WB, Mouse)

Cui W, Sathyanarayan A, Lopresti M et al. Lipophagy-derived fatty acids undergo extracellular efflux via lysosomal exocytosis Autophagy 2020-02-19 [PMID: 32070194] (WB, Mouse)

Hu W, Zhang L, Li MX et al. Vitamin D3 activates the autolysosomal degradation function against Helicobacter pylori through the PDIA3 receptor in gastric epithelial cells. Autophagy 2019-01-06 [PMID: 30612517] (WB, Human)

## Procedures

### Western Blot protocol for Mucolipin 1 Antibody (NB110-82375)

#### Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.
2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain the membrane with Ponceau S (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot TBS -0.05% Tween 20 (TBST).
5. Block the membrane in 5% Non-fat milk in TBST (blocking buffer) for at least 1 hour.
6. Wash the membrane in TBST three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate overnight at 4C with gentle rocking.
8. Wash the membrane in TBST three times for 10 minutes each.
9. Incubate the membrane in diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) for 1 hour at room temperature.
10. Wash the blot in TBST three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions.





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### **Products Related to NB110-82375**

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NB820-59657	Mouse Brain Whole Tissue Lysate (Adult Whole Normal)
NB110-82375PEP	Mucolipin 1 Antibody Blocking Peptide
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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